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Water and Air Quality Issues in Oil and Gas
Development: The Evolving Framework of
Regulation and Management (Martz Summer
Conference, June 5-6)

2014

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SLIDES: Groundwater Protection Council

Steven P. Musick

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2014 Martz Summer Conference

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**Boulder, Colorado
June 5-6, 2014**

GWPC is the National Association of State Ground Water and Underground Injection Control Agencies

- Our Mission is to Promote the Protection and Conservation of Ground Water Resources for all Beneficial Uses, recognizing Ground Water as a Critical Component of the Ecosystem**
- We provide a forum for stakeholder communication and research to improve governments' role in the protection and conservation of ground water**

Some of Our Current Initiatives

- **FracFocus.org 2.0 – Chemical Registry for Frac Fluids**
- **2014 Update of States Oil and Gas Regulations**
- **Ground Water Report to the Nation – New Section**
 - ***Groundwater and Alternative Water Supplies***
- **Source Water Protection-Source Water Collaborative**
- **RBDMS Data Modules**
 - **Wells, Permits, Reporting, Water & Soils**
- **GWPC/IOGCC State Initiatives**
 - **UIC State Peer Reviews**
 - **State Inspector Training & Leadership**

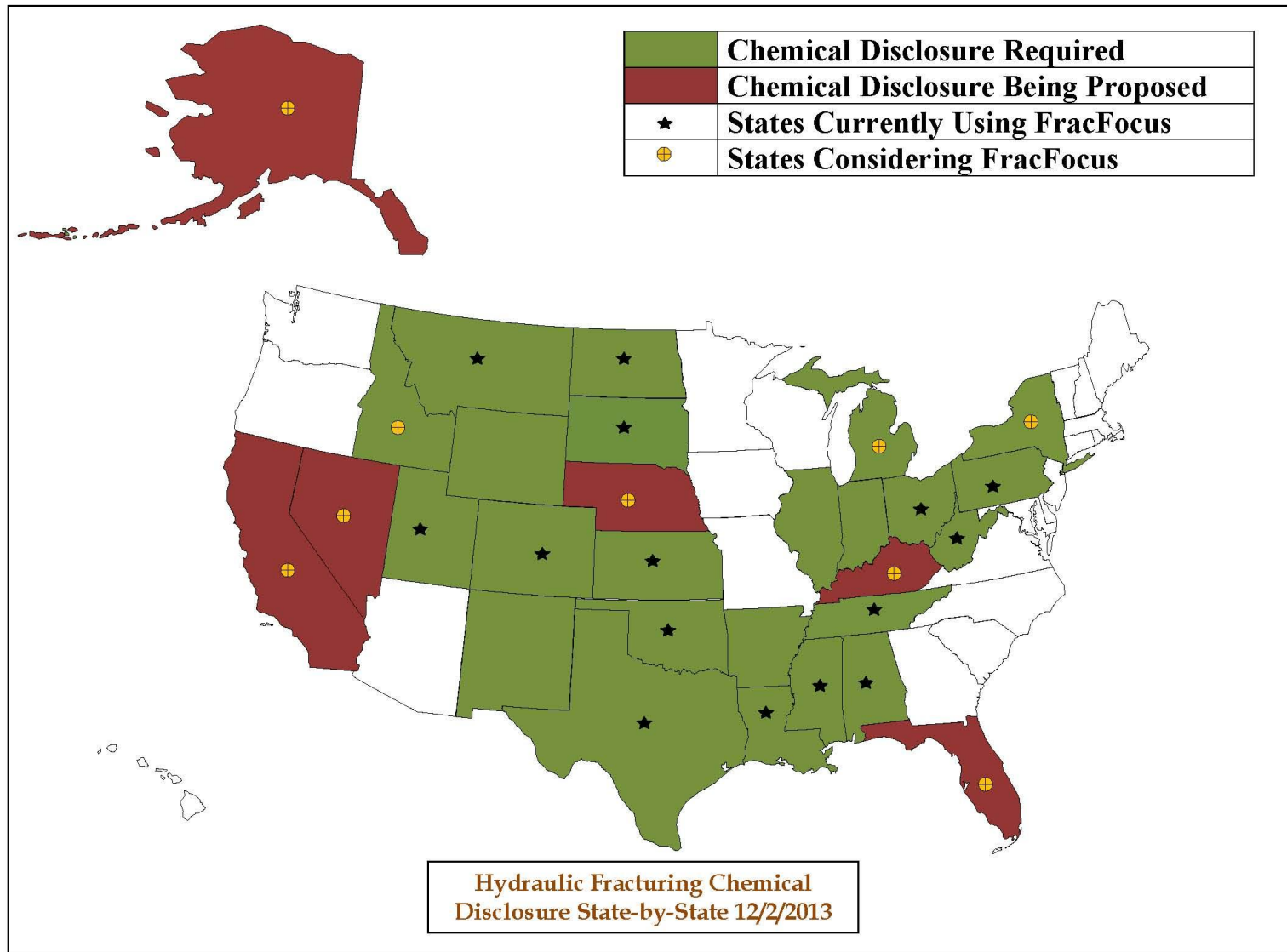
GWPC Partners

- EPA, DOE, ASDWA, NGWA, IOGCC, NRWA, GWREF
- Annual Conferences:
 - Underground Injection Control Meeting
 - Annual Forum (Co-Located with NRWA - Oct 2014)
- Spotlight Meetings:
 - Stray Gas
 - Induced Seismicity
 - Unconventional Oil & Gas Water Management

Frac Focus - Activity progress

Category	End of Year One	Now	% Change
Participating companies	196	780	400
Reporting companies	96	570	600
Wells reported	16,290	65,352	400
Website visits	177,128	715,443	400
Unique visitors	122,881	405,195	400

State-by-State Disclosure



STATE OIL AND NATURAL GAS REGULATIONS DESIGNED TO PROTECT WATER RESOURCES



April 2009

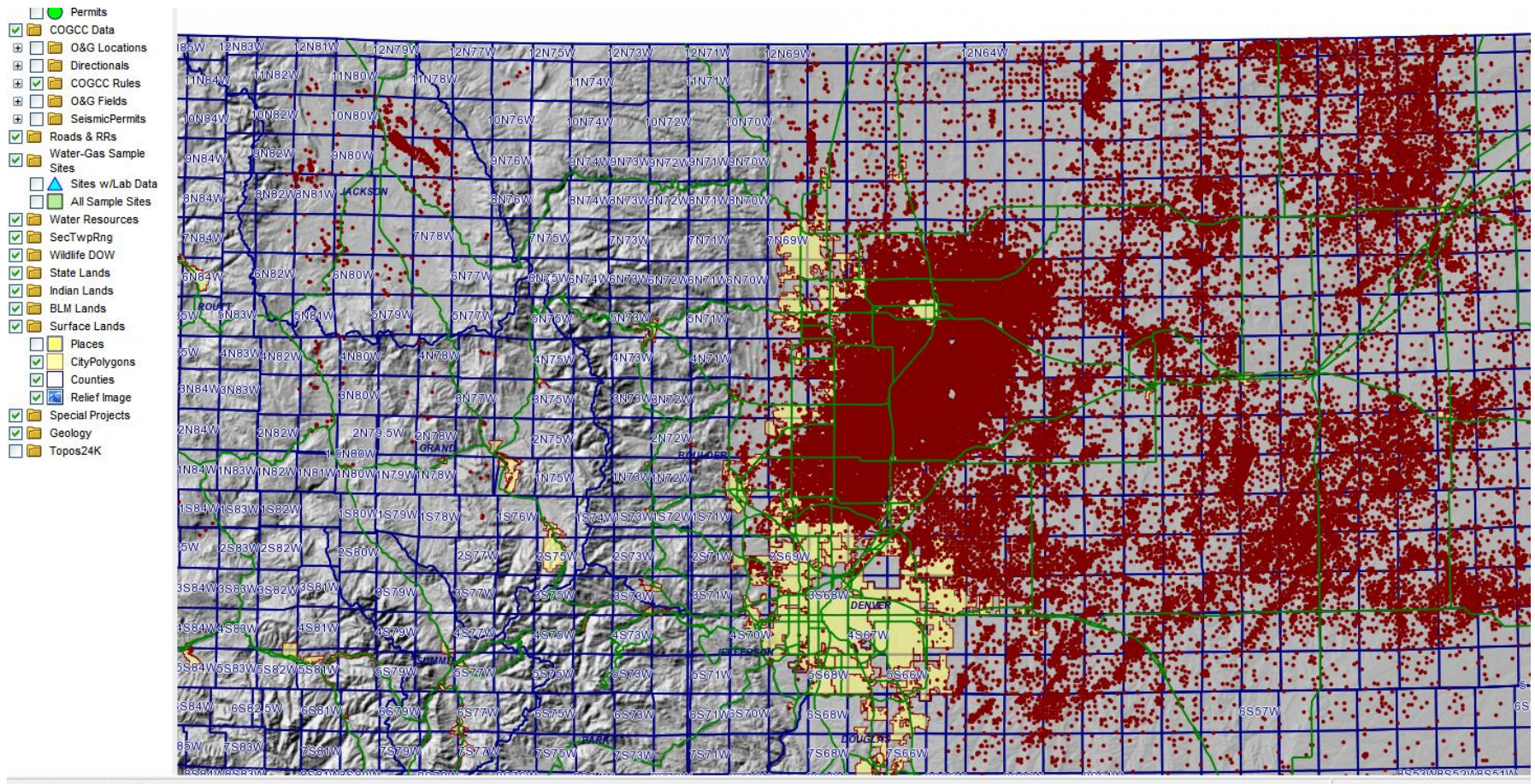


- Describes how state oil & gas regulations have changed over time
- Determined which regulations are designed to protect water
- Describes how regulations are designed to protect water
- Details where areas of concern still exist
- Contains key messages and suggested actions relative to the areas of concern

Risk Based Data Management System (RBDMS) was developed to aid regulatory agencies in their UIC and oil and gas oversight missions

- Manage operator and bonding information
- Track well locations and construction details
- Assess area of review impacts of UIC wells to protect USDWs
- Track production and injection activities
- Manage permitting
- Inventory surface facilities
- Schedule hearings
- Track inspection, compliance, and enforcement programs and complaint and spill investigations
- Generate reports on demand

Denver Area Oil and Gas Wells



RBDMS success is based on collaboration

- Developed under a grant funding from the DOE NETL with matching funding from the benefiting state agencies
- Directed by a four-state Steering Committee (NY, ND, MT, NE)
- Advised by a rotating Technical Committee of state agency representatives
- Supported by a state-to-state peer network and a panel of consultants tapped through help desk referrals



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www.gwpc.org